- 1. (original): An isolated protein complex having a first protein which is survivin or a homologue or derivative or fragment thereof interacting with a second protein which is a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT or a homologue or derivative or fragment thereof.
- 2. (original): The isolated protein complex of Claim 1, wherein said first protein is survivin and said second protein is a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT.
- 3. (original): The isolated protein complex of Claim 1, wherein said first protein is a first fusion protein containing survivin or a survivin homologue or fragment.
- 4. (original): The isolated protein complex of Claim 1, wherein said second protein is a second fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT or a homologue or fragment thereof.
- 5. (original): An isolated protein complex comprising a first protein interacting with a second protein, wherein:
- (a) said first protein is selected from the group consisting of
 - (i) survivin,
- (ii) a survivin fragment capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, and
- (iii) a fusion protein containing survivin or said survivin fragment; and(b) said second protein is selected from the group consisting of
- (1) a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,

- (2) a fragment of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT and capable of interacting with survivin, and
- (3) a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT or said fragment.
- 6. (withdrawn): A protein microarray comprising the protein complex according to Claim 5.
- 7. (withdrawn): A fusion protein having a first polypeptide covalently linked to a second polypeptide, wherein said first polypeptide is survivin or a homologue or fragment thereof, and wherein said second polypeptide is a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT or a homologue or fragment thereof.
 - 8. (withdrawn): A nucleic acid encoding the fusion protein of Claim 7.
- 9. (withdrawn): A method for selecting modulators of the protein complex of Claim 5, comprising:

providing the protein complex; contacting said protein complex with a test compound; and detecting the binding of said test compound to said protein complex.

- 10. (withdrawn): The method of Claim 9, further comprising a step of generating a data set defining one or more selected test compounds, said data set being embodied in a transmittable form.
- 11. (currently amended): A method for selecting modulators of an interaction between a first protein and a second protein in a protein complex formed by said first and second proteins,
 - (a) said first protein being selected from the group consisting of

- (i) survivin,
- (ii) a survivin homologue having an amino acid sequence at least 90% identical to that of survivin and capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (iii) a survivin fragment capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, and
- (iv) a fusion protein containing survivin, said survivin homologue or said survivin fragment; and
 - (b) said second protein being selected from the group consisting of
 - (1) HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (2) a homologue of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT having an amino acid sequence at least 90% identical to that of said protein and capable of interacting with survivin,
- (3) a fragment of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT and capable of interacting with survivin, and
- (4) a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, said protein homologue or said protein fragment, said method comprising:

contacting said first protein with said second protein in the presence of a test compound; and

detecting the interaction between said first protein and said second protein.

- 12. (original): The method of Claim 11, wherein at least one of said first and second proteins is a fusion protein having a detectable tag.
- 13. (original): The method of Claim 11, wherein said contacting step is conducted in a substantially cell free environment.

- 14. (currently amended) The method of Claim 11, wherein [the interaction between] said first protein and said second protein are contacted with each other [is determined] in a host cell.
 - 15. (original): The method of Claim 14, wherein said host cell is a yeast cell.
- 16. (original): The method of Claim 11, wherein said determining step comprises measuring the amount of the protein complex formed by said first and second proteins.
- 17. (original): The method of Claim 11, further comprising a step of generating a data set defining one or more selected test compounds, said data set being embodied in a transmittable form.
- 18. (original): A method for selecting modulators of the protein complex of Claim 5, comprising: contacting said protein complex with a test compound; and detecting the interaction between said first protein and said second protein.
- 19. (original): The method of Claim 18, further comprising a step of generating a data set defining one or more selected test compounds, said data set being embodied in a transmittable form.
- 20. (currently amended): A method for selecting modulators of an interaction between a first polypeptide and a second polypeptide in a protein complex, said first polypeptide being survivin or a homologue or fragment thereof and said second polypeptide being a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT or a homologue or fragment thereof, said method comprising:

providing in a host cell a first fusion protein having said first polypeptide, and a second fusion protein having said second polypeptide, wherein a DNA binding domain is

fused to one of said first and second polypeptides while a transcription-activating domain is fused to the other of said first and second polypeptides;

providing in said host cell a reporter gene, wherein the transcription of the reporter gene is controlled by the interaction between the first polypeptide and the second polypeptide;

allowing said first and second fusion proteins to interact with each other within said host cell in the presence of a test compound; and

determining the expression of said reporter gene.

- 21. (original): The method of Claim 20, wherein said host cell is a yeast cell.
- 22. (currently amended): A method for selecting compounds capable of interfering with the interaction between a first protein and a second protein in a protein complex, wherein
 - (a) said first protein is selected from the group consisting of
 - (i) survivin,
- (ii) a survivin homologue having an amino acid sequence at least 90% identical to that of survivin and capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (iii) a survivin fragment capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, and
- (iv) a fusion protein containing survivin, said survivin homologue or said survivin fragment; and
 - (b) said second protein is selected from the group consisting of
 - (1) HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (2) a homologue of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT having an amino acid sequence at least 90% identical to that of said protein and capable of interacting with survivin,

- (3) a fragment of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT capable of interacting with survivin, and
- (4) a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, said protein homologue or said protein fragment, said method comprising: contacting said first protein with said second protein in the presence of a test compound and detecting the interaction between said first protein and said second protein; and contacting said first protein with said second protein in the absence of said test compound and detecting the interaction between said first protein and said second protein.
- 23. (original): The method of Claim 22, wherein said contacting steps are conducted in a substantially cell free environment.
- 24. (original): The method of Claim 22, wherein said contacting steps are conducted in a host cell.
- 25. (original): The method of Claim 22, wherein the first protein is a fusion protein containing survivin or said survivin fragment, and said second protein is a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT or said protein fragment.
- 26. (original): The method of Claim 22, further comprising a step of generating a data set defining one or more selected test compounds, said data set being embodied in a transmittable form.
- 27. (withdrawn): A composition comprising:
 a first expression vector having a nucleic acid encoding a first protein; and
 a second expression vector having a nucleic acid encoding a second protein, wherein:
 (a) said first protein is selected from the group consisting of
 - (i) survivin,

- (ii) a survivin homologue having an amino acid sequence at least 90% identical to that of survivin and capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (iii) a survivin fragment capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, and
- (iv) a fusion protein containing survivin, said survivin homologue or said survivin fragment; and
- (b) said second protein is selected from the group consisting of
 - (1) HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (2) a homologue of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT having an amino acid sequence at least 90% identical to that of said protein and capable of interacting with survivin,
- (3) a fragment of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT capable of interacting with survivin, and
- (4) a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, said protein homologue or said protein fragment.
 - 28. (withdrawn): An expression vector comprising:
- (a) a first nucleic acid encoding a first protein selected from the group consisting of
 - (i) survivin,
- (ii) a survivin homologue having an amino acid sequence at least 90% identical to that of survivin and capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (iii) a survivin fragment capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, and

- (iv) a fusion protein containing survivin, said survivin homologue or said survivin fragment; and
- (b) a second nucleic acid encoding a second protein selected from the group consisting of
 - (1) HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (2) a homologue of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT having an amino acid sequence at least 90% identical to that of said protein and capable of interacting with survivin,
- (3) a fragment of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT and capable of interacting with survivin, and
- (4) a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, said protein homologue or said protein fragment.
 - 29. (withdrawn): A host cell comprising the expression vector of Claim 28.
- 30. (withdrawn): A host cell comprising:
 a first expression vector having a nucleic acid encoding a first protein; and
 a second expression vector having a nucleic acid encoding a second protein, wherein:
 - (a) said first protein is selected from the group consisting of
 - (i) survivin,
- (ii) a survivin homologue having an amino acid sequence at least 90% identical to that of survivin and capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (iii) a survivin fragment capable of interacting with a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, and
- (iv) a fusion protein containing survivin, said survivin homologue or said survivin fragment; and
- (b) said second protein is selected from the group consisting of

- (1) HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT,
- (2) a homologue of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT and having an amino acid sequence at least 90% identical to that of said protein and capable of interacting with survivin,
- (3) a fragment of a protein selected from the group consisting of HDLC1, betaactin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT and capable of interacting with survivin, and
- (4) a fusion protein containing a protein selected from the group consisting of HDLC1, beta-actin, DNA helicase II, COPP, OSTP, SLC8A1, A2-CAT, said protein homologue or said protein fragment.
- 31. (withdrawn): The host cell of Claim 30, wherein said host cell is a yeast cell.
- 32. (withdrawn): The host cell of Claim 30, wherein said first and second proteins are fusion proteins.
- 33. (withdrawn): The host cell of Claim 30, wherein one of said first and second nucleic acids is linked to a nucleic acid encoding a DNA binding domain, and the other of said first and second nucleic acids is linked to a nucleic acid encoding a transcription-activation domain, whereby two fusion proteins can be produced in said host cell.
- 34. (withdrawn): The host cell of Claim 30, further comprising a reporter gene, wherein the expression of the reporter gene is controlled by the interaction between the first protein and the second protein.
- 35. (withdrawn): A method for providing modulators of a protein-protein interaction comprising: providing atomic coordinates defining a three-dimensional structure of the protein complex of Claim 5; and

designing or selecting compounds capable of modulating the interaction between the first and second proteins based on said atomic coordinates.

36. (withdrawn): The method of Claim 35, further comprising a step of generating a data set defining one or more selected test compounds, said data set being embodied in a transmittable form.

37. (withdrawn): A method for providing antagonists of a protein-protein interaction, comprising: providing atomic coordinates defining a three-dimensional structure of the protein complex of Claim 5; and designing or selecting compounds capable of interfering with the interaction between the first and second proteins based on said atomic coordinates.

- 38. (canceled): An isolated antibody selectively immunoreactive with the protein complex of Claim 5.
 - 39. (new): The isolated protein complex of Claim 1, wherein said first protein is covalently linked to said second protein.

11